

Title:

Methane monitoring from small unmanned aerial systems

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Abstract:

The Pipeline Research Council International (PRCI) is funding NASA's Jet Propulsion Laboratory (JPL) and the University of California Merced to deploy the open-path laser spectrometer (OPLS) in small unmanned aerial systems (sUASs). Application of OPLS on sUASs heralds the arrival of a semi-autonomous, continuous ppb-level natural gas monitoring system for public safety and novel environmental studies. Here we describe experiments and results which examine how to use this new capability.